**Title of the project**

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**ONLINE** **CRIMINAL ENQUIRY AND MANAGEMENT**

**SYSTEM**

**Introduction**

The project titled as “**Online Criminal Enquiry and Management System** “is a web based application. This software provides facility for reporting online crimes, complaints, missing persons, show most wanted person details mailing as well as chatting. Any Number of clients can connect to the server. Each user first makes their login to sever to show their availability. The server can be any Web Server. An SMTP Server must be maintained for temporary storage of emails and chat jar files for enable the chatting facilities. The main modules in this project

**Modules**

* Visitors
* Registered Users
* Administrator

**The visitor module include,**

* View Hot news: This module help the visitor to see the latest hot news which can updated by the admin.

**The registered user module includes,**

* Add Complaint: This module help the user to report online complaints.
* Add Crime report: This module help the user to report online crimes.
* Add Missing person: This module help the user to report online missing persons details also we have to add photos of missing person using heterogeneous database.
* View Missing persons: This module help the user to view all the missing person details.
* View Most wanted persons: This module help the user to view all most wanted persons which can be given by the administrator.
* Edit Complaint: This module help the user to edit his complaint details.
* Edit Account: This module help the user to update his or her profile.
* View complaint status: This module allows us to view the status of all complaint that you have posted earlier.
* View crime status: This module allows us to view the status of the all crimes that you have posted earlier.
* Add and View feedback: This module helps the user to add and view feedbacks
* Chat: This module help the user to chat with the administrator or with other registered users
* Mail: This module helps the user to send mail to the administrator.

**The administrator module includes,**

* View and reply user complaint: This module helps the admin to view and reply user’s complaint details
* View and reply user crimes: This module helps the admin to view and reply user’s crimes details
* New admin: This module used for add new admin
* Add and delete latest hot news: This module helps the admin to add and delete latest hot news.
* View and delete user’s feedback: This module helps the admin to add and delete user’s feedback
* Add, delete and view most wanted persons: This module helps the admin to add, delete and view most wanted person details
* Add, delete and view missing persons: This module helps the admin to add, delete and view missing person details
* Add and view Criminal registrations: This module helps the admin to add and view criminal registrations
* Add and view FIR: This module helps the admin to add and view Fir reports
* Add and view history sheet: This module helps the admin to add and view history reports
* This module helps the admin to view and delete complaint reply.
* Add and view prisoner report: This module helps the admin to add and prisoner reports
* Change password: This module helps the admin to update his or her password
* Chat: This module help the admin to chat with the administrator or with registered users
* Mail: This module helps the user to send mail to the user.

**OBJECTIVES**

* Input Design is the process of converting a user-oriented description of the input into a computer-based system. This design is important to avoid errors in the data input process and show the correct direction to the management for getting correct information from the computerized system.
* It is achieved by creating user-friendly screens for the data entry to handle large volume of data. The goal of designing input is to make data entry easier and to be free from errors. The data entry screen is designed in such a way that all the data manipulates can be performed. It also provides record viewing facilities.
* When the data is entered it will check for its validity. Data can be entered with the help of screens. Appropriate messages are provided as when needed so that the user will not be in maize of instant. Thus the objective of input design is to create an input layout that is easy to follow

**System Analysis**

* **Data Flow Diagram**

**Context flow diagram**

User

Administrator

UserID, Complaints

Complaint Management

Solutions, Feedback

**Level 1 DFD- Administrator**

Add FIR Reports

Add mortem analysis

View Complaints

View user details

View Feedback

User name, Password

Administrator

User

Registration details

Complaints

Feedback

Add Solutions

FIR

Mortem Details

**Level 2 DFD- Administrator**

View Reports

Add Reports

FIR No: Details

FIR Details

Complaint Details

Complaints

FIR

Mortem details

Reports

Administrator

User

Mortem Details

**Level 1 DFD- User**

Verify

Complaints

Username/Password

Registration

Login

Complaints

Username/Password

User

**Level 2 DFD- User**

Solutions

Complaint Details

Complaint Status

Complaint ID

User name Password

User

Complaint

Feedback

Complaint Status

* Er diagram

Maintenance

OCEMS

Crime file

Files

Admin

Authorize

User

Access

Access

**System design**

**4.4 INPUT DESIGN**

The input design is the link between the information system and the user. It comprises the developing specification and procedures for data preparation and those steps are necessary to put transaction data in to a usable form for processing can be achieved by inspecting the computer to read data from a written or printed document or it can occur by having people keying the data directly into the system. The design of input focuses on controlling the amount of input required, controlling the errors, avoiding delay, avoiding extra steps and keeping the process simple. The input is designed in such a way so that it provides security and ease of use with retaining the privacy. Input Design considered the following things:

* What data should be given as input?
* How the data should be arranged or coded?
* The dialog to guide the operating personnel in providing input.
* Methods for preparing input validations and steps to follow when error occur.

**4.5 OUTPUT DESIGN**

A quality output is one, which meets the requirements of the end user and presents the information clearly. In any system results of processing are communicated to the users and to other system through outputs. In output design it is determined how the information is to be displaced for immediate need and also the hard copy output. It is the most important and direct source information to the user. Efficient and intelligent output design improves the system’s relationship to help user decision-making.

* Designing computer output should proceed in an organized, well thought out manner; the right output must be developed while ensuring that each output element is designed so that people will find the system can use easily and effectively. When analysis design computer output, they should Identify the specific output that is needed to meet the requirements.
* Select methods for presenting information.
* Create document, report, or other formats that contain information produced by the system.

The output form of an information system should accomplish one or more of the following objectives.

* Convey information about past activities, current status or projections of the Future.
* Signal important events, opportunities, problems, or warnings.
* Trigger an action.
* Confirm an action.

### DATABASE DESIGN

The collection of data is usually referred to as the database. The database contains the information about particular enterprise. Database system of data involves both the definitions of structures for the storage of information, processing and mechanism for the manipulation of information. Database designing helps to design the data modules efficiently. In addition, the database system provides for the safety of information stored in the database despite system crashes or attempts of unauthorized access.

### DATA STRUCTURE DESIGN

Data structure required for my project is as follows which shows how the data will store in database, what will be the primary key, attributes, tuple, length of data type so that feasibility occurred for the development of the project.

**4.8 tables structure**

**Table Name: Login**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fieldname** | **Data Type** | **Length** | **Key** |
| Username | Varchar | 20 | Primary key |
| Password | Varchar | 25 | - |
| Status | Varchar | 10 | - |

**Table Name: User Registration**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fieldname** | **Data Type** | **Length** | **Key** |
| Name | Varchar | 20 | - |
| Username | Varchar | 20 | Primary key |
| Password | Varchar | 20 | - |
| Secret question | Varchar | 50 | - |
| Answer | Varchar | 50 | - |
| Address | Varchar | 50 | - |
| Pincode | Integer | 9 | - |
| Phone | Integer | 10 | - |
| Email | Varchar | 30 | - |
| Village | Varchar | 15 | - |
| Taluk | Varchar | 15 | - |
| District | Varchar | 15 | - |
| State | Varchar | 15 | - |

**Table Name: Crime Report**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fieldname** | **Data Type** | **Length** | **Key** |
| Crime no | Varchar | 15 | Primary Key |
| Userid | Varchar | 15 | - |
| Name of informant | Varchar | 15 | - |
| Details of suspect | Varchar | 15 | - |
| Description | Varchar | 15 | - |
| Datec | Date | - | - |

**Table Name: Admin Registration**

|  |  |  |  |
| --- | --- | --- | --- |
| Fieldname | Data Type | Length | Key |
| Username | Varchar | 20 | Primary key |
| Password | Varchar | 20 | - |
| Confirm password | Varchar | 20 | - |
| Secret question | Varchar | 50 | - |
| Answer | Varchar | 50 | - |
| Name | Varchar | 20 | - |
| Designation | Varchar | 20 | - |
| Official Address | Varchar | 25 | - |
| Phone | Integer | 11 | - |
| Residential Address | Varchar | 25 | - |
| Pincode | Integer | 10 | - |
| Phone | Integer | 10 | - |
| Email | Varchar | 30 | - |

**Table Name: Complaint registration**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fieldname** | **Data Type** | **Length** | **Key** |
| Complaintno | Varchar | 10 | - |
| Userid | Varchar | 15 | Primary key |
| Details of suspect | Varchar | 20 | - |
| Description | Varchar | 25 | - |
| Datc | Date | - | - |
| Type of crime | Varchar | 10 | - |
| Others | Varchar | 15 | - |

**Table Name: Prisoners Register**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fieldname** | **Data Type** | **Length** | **Key** |
| Prisonerno | Varchar | 10 | Primary Key |
| Chargesheetno | Varchar | 15 | - |
| Nickname | Varchar | 15 | - |
| Typeofcrime | Varchar | 15 | - |
| Civil | Varchar | 10 | - |
| Familymembers | Varchar | 20 | - |
| Identificationmarks | Varchar | 25 | - |
| Height | Varchar | 15 | - |
| Weight | Varchar | 15 | - |
| Colour | Varchar | 10 | - |

**Table Name: Criminal Register**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fieldname** | **Data Type** | **Length** | **Key** |
| Criminalno | Varchar | 10 | Primary key |
| Name | Varchar | 15 | - |
| Nickname | Varchar | 15 | - |
| Age | Varchar | 10 | - |
| Occupation | Varchar | 15 | - |
| Crimetype | Varchar | 15 | - |
| Address | Varchar | 15 | - |
| Mostyes | Varchar | 15 | - |
| Mostno | Varchar | 15 | - |

**Table Name:History sheet**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fieldname** | **Data Type** | **Length** | **Key** |
| Prisoner | Varchar | 15 | Primary Key |
| Crimeno | Varchar | 10 | - |
| Type of crime | Varchar | 15 | - |
| Date of occurrence | Varchar | 10 | - |
| Place of occurrence | Varchar | 15 | - |
| Brief of case | Varchar | 10 | - |

**Table Name:Feedback**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fieldname** | **Data Type** | **Length** | **Key** |
| Name | Varchar | 15 | - |
| Email | Varchar | 25 | - |
| Message | Varchar | 30 | - |

**Table Name: Crime status**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fieldname** | **Data Type** | **Length** | **Key** |
| Crimeno | Varchar | 10 | Primary Key |
| Viewstatus | Varchar | 20 | - |

**Table Name: Complaint status**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fieldname** | **Data Type** | **Length** | **Key** |
| Complaintno | Varchar | 10 | Primary Key |
| Viewstatus | Varchar | 20 | - |

**Table Name: FIR**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fieldname** | **Data Type** | **Length** | **Key** |
| District | Varchar | 10 | - |
| Datc | Date | 10 | - |
| Time | Varchar | 15 | - |
| Typeofinformation | Varchar | 10 | - |
| Placeofoccurence | Varchar | 15 | - |
| Foreignlocal | Varchar | 15 | - |
| Act | Varchar | 10 | - |
| Firno | Varchar | 10 | - |
| Section | Varchar | 10 | - |
| Diaryrefno | Varchar | 15 | - |
| Informantadd | Varchar | 15 | - |
| Passportno | Varchar | 10 | - |
| Complaintno | Varchar | 10 | - |
| Police | Varchar | 10 | - |
| Receivedtime | Varchar | 10 | - |
| Informationrec | Varchar | 10 | - |
| Distancefrompolst | Varchar | 10 | - |

**Table Name: Most wanted**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fieldname** | **Data Type** | **Length** | **Key** |
| Name | Varchar | 10 | - |
| Age | Varchar | 10 | - |
| Address | Varchar | 15 | - |
| Typeofcrime | Varchar | 10 | - |
| Complexion | Varchar | 10 | - |
| Hair | Varchar | 15 | - |
| Built | Varchar | 20 | - |
| Passportno | Varchar | 12 | - |
| Casedescription | Varchar | 12 | - |

**Table Name: Missing person**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fieldname** | **Data Type** | **Length** | **Key** |
| FIRno | Varchar | 10 | Primary Key |
| district | Varchar | 10 | - |
| Nameofpolicestation | Varchar | 10 | - |
| Datem | Date | - | - |
| Dater | Date | - | - |
| Sex | Varchar | 4 | - |
| Age | Varchar | 6 | - |
| Complex | Varchar | 10 | - |
| Height | Varchar | 5 | - |
| Fat | Varchar | 10 | - |
| Idmark | Varchar | 10 | - |
| Apparels | Varchar | 15 | - |
| Namaddr | Varchar | 15 | - |
| Bc | Varchar | 14 | - |

**Tools and platforms**

**Hardware Specification**

Processor : Pentium III/AMD Athlone XP

RAM : 128 MB

Hard disk : 20 GB

FDD : 1.44MB

Monitor : 14 inch

Mouse : 3 Button scroll

CD Drive : 52 X

Keyboard : 108 keys

**Software Specification**

Operating System : Windows 2000/xp

Languages : java 2(EJB2.0, JDBC, JSP, Servlet, Java Mail)

Front End : HTML, JavaScript

Platform : J2EE

Web Servers : Web Logic8.1/Tomcat 5.0

Backend : My SQL

Browser Program : Internet explorer/Mozilla Fireworks

**Conclusion**

The project titled as “Online Criminal Enquiry and Management System” is a web based application. This software provides facility for reporting online crimes, complaints, missing persons, show most wanted person details mailing as well as chatting. This software is developed with scalability in mind. Additional modules can be easily added when necessary. The software is developed with modular approach. All modules in the system have been tested with valid data and invalid data and everything work successfully. Thus the system has fulfilled all the objectives identified and is able to replace the existing system.

The project has been completed successfully with the maximum satisfaction of the organization. The constraints are met and overcome successfully. The system is designed as like it was decided in the design phase. The project gives good idea on developing a full-fledged application satisfying the user requirements.

The system is very flexible and versatile. This software has a user-friendly screen that enables the user to use without any inconvenience. Validation checks induced have greatly reduced errors. Provisions have been made to upgrade the software. The application has been tested with live data and has provided a successful result. Hence the software has proved to work efficiently.

**Scope for Future Enhancement**

In future we can use Image recognization instead of using heterogeneous database more over High speed, accuracy and non-redundant data are the main advantages of the proposed system. In the proposed system the user is provided with a choice of data screen, which are similar in formats to the source documents. Data entry errors can be minimized through validity checks. After the verification only the data are placed the permanent database .The software can be developed further to include a lot of modules because the proposed system is developed on the view of future, for example we should develop the system as a database independent using JDBC so we can connect it to any other database, Now the proposed system is based on PC and intranet but in the future if we need to convert it into internet then we need to change the front end only because we are developing this on the basis of OOP technology and most of the business logic’s are bounded in the class files and module like reusable components.

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